

First Steps with COIN-OR

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January 2012

5. Cbc Basics

5. On my laptop, the solution time is 2.00 seconds.
6. The result for a few trial settings are listed below. A dash indicates that the default setting were used.

	I	II	III	IV	V
gomory	on	on	on	on	–
mixed	root	root	root	root	off
probing	–	root	–	–	root
rounding heur.	–	–	off	off	off
strong branch.	–	–	10	2	1
Time	2.00	1.99	2.12	1.80	2.13

7. Setting `logLevel` to

- 0 : No output, except a line indicating that the input file was read with no errors.
- 1 : (Default) Print the command line, statistics on the formulation after preprocessing, results of heuristics (mini branch and bound, Feasibility Pump, DiveCoefficient) then list the improvement in lower bound at the root, information about the different cut generators at the root node, improvement in feasible solution value found, and finally information about the optimal solution value and cpu time.

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- 2: Add one line per node, indicating the number of integer infeasibility and depth of the node. Add information about number of fixed variables or cut strengthening obtained by preprocessing (from `CglPreprocess`).
- 3: Add information on elements modified during preprocessing and on the strong branching process, including the variables tested and corresponding up and down values.
- 4: Add information on the variables chosen to branch on.